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# FIG. 1A

5'	CAG	AGA	9 GGC	TGT	ATT	18 TCA		CAG			AGA	CCT	CTT				GAC	54 TGG
			63			72			81			90			99			108
	ACA	AAG	GGG		ACA	CAT	TCC		CAT	ACG	GTT		CCT		CCT	GCC	TGG	TGC
			117			126			135			144			153			162
	TGG	TCA	117 CAG	TTC	AGC	TTC		ATG		GTG	GAT			GGC		GAA	TCC	
								M	M	v	D	P	N	G	N	Ε.	s	s
			171			180	,		189			198			207			216
	GCT	ACA				CTA							GAA	GAG	GCT	CAG	TTC	TGG
	A	T	Y	F	I	L	I	G	L	P	G	L	E	E	A	Q	F	W
			225			234			243			252			261			270
	TTG	GCC	TTC	CCA	TTG	TGC	TCC	CTC	TAC	CTT	ATT	GCT	GTG	CTA	GGT	AAC	TTG	ACA
	E	A	F	P	L	С	S	L	Y	L	I	A	V	L	G	N	L	T
			279			288			297			306			315			324
				ATT	GTG		ACT	GAG		AGC	CTG	CAT	GAG	CCC	ATG	TAT	ATA	TTT·
	· I	I	Y	I	<u>v</u>	R	T	E	Н	s	L	Н	E	P.	М	Y	Ī	F
	-		333			342			351			360			369			378
	CTT	TGC		CTT	TCA	GGC			ATC	CTC	ATC	TCC	ACC	TCA	TCC	ATG		AAA
	 L				s	 G		D		L	I	<b>s</b>		s	s		P	ĸ
		-	207			206			405			414			423			432
	ATG	CTG	387 GCC		TTC	396 TGG		AAT			ACC		CAG	TTT	GAT	GCT	TGT	
	 M			 I	 F	 W	 F	N	 s	т	т	 I	Q	 F	D	Α	C	
									450			460	-		477			486
	CTA	CAG	441 ATT			450 ATC		TCC	459 TTA		GGC	468 ATG		TCC			CTG	CTG
	 L	 Q	Ī	 F	 A	 I	н	s		 S				 S	 T			ī
	GCC	ATG	495 GCT		GAC	504 CGC	TAT	GTG	513 GCC		TGT	522 CAC	CCA	CTG	531 CGC	CAT	GCC	540 ACA
					 D	 R		 V		 I	 C	 н	 p		 R	 H	 A	<b>-</b> 団
	A	M	A	F	ע		1	٧			C		-	u		••	••	$\overline{A}$
	GTA	Стт	549 ACG		CCT	558 CGT	GTC	ACC	567 AAA		GGT	576 GTG	GCT	GCT	585 GTG	GTG	CGG	594 GGG
	·																	
	V	L	<u>T</u>	L	P	R	v	T	K	I	G_	v_	A_	<u> A</u>	<u>v</u>	<u>. v</u>	R	G
	CCT	GCN	603	ልጥር	. פרא	612 CCC		ር ር	621 GTC		ልሞሮ	630 AAG		СТС	639 CCC		TGC	648 CGC
		GCA																
	A	Α	L	М	Α	P	L	P	V	F	I	K	Q	L	P	F	С	R

# FIG. 1B

maa		657	Omm.	maa	666		መአር	675	ርሞአ		684		CTC	693 ATG	מממ	ርፕር	702 GCC
TCC	AAT	ATC	CTT		CAT		TAC				CAA	GAI					
S	N	I	L	s	H	S	Y	С	L	Н	Q	D	v	M	K	L	A
		711			720			729			738			747			756
TGT	GAT	711 GAT	ATC	CGG		AAT	GTC		TAT	GGC		ATC	GTC	ATC	ATC	TCC	
С	D	D	I	R	V	N	V	V	Y	G	L	I	V	<u> </u>	<u> </u>	s	A
		765			774			783			792			801			810
ATT	GGC		GAC	TCA	CTT	CTC	ATC	TCC	TTC	TCA	TAT	CTG	CTT	ATT	CTT	AAG	ACT
											<u></u>						T
I	G	L	D	S	L	L	<u> </u>	S	F	S	ı	L	L		L_		1
		819			828			837			846			855			864
GTG	TTG	GGC	TTG	ACA	CGT	GAA	GCC	CAG	GCC	AAG	GCA	TTT	GGC	ACT	TGC	GTC	TCT
 V	 L	G	L	т	R	 E	A	Q	A	ĸ	 A	F	G	т			s
٧	n	G	п	•	K		••	¥	••	••	••	<u>Ľ</u>					
		873			882			891			900		~~~	909	maa	3.000	918
CAT	GTG	TGT	GCT	GTG	TTC	ATA	TTC	TAT	GTA	CCT	TTC	ATT	GGA	TTG	TCC	AIG	
H	V	С	A	v	F	I	F	Y	v	P	F	I	G	L	s	М	v
L																	
G > m		927			.936		C N C	945		CTC	954 CCC		ХТС	963 TTG	GCC	<u>አ</u> ልጥ	972 ATC
CAT	CGC	TTT	AGC	AAG			GAC										
Н	R	F	s	к	R	R	D	s	P	L	P	V	I	L	A	N	1
Н	R		s	К		R	D		P	٠							
		981			990			999			1008		:	1017		:	1026
		981			990			999			1008		:	1017 GTG		:	1026
		981			990			999			1008		:	1017		:	1026
TAT	CTG  L	981 CTG  L	GTT	CCT 	990 CCT  P	GTG  V	CTC  L	999 AAC  N	CCA	ATT	1008 GTC 	TAT	GGA 	1017 GTG	AAG	ACA T	1026 AAG
TAT Y	CTG  L	981 CTG  L	GTT  V	CCT  P	990 CCT  P	GTG  V	CTC  L	999 AAC  N	CCA  P	ATT  I	1008 GTC  V	TAT	GGA 	GTG	AAG  K	ACA T	1026 AAG  K
TAT Y GAG	CTG  L ATT	981 CTG  L 1035 CGA	GTT V CAG	P	990 CCT  P 1044 ATC	GTG  V	CTC L CGA	999 AAC  N 1053 CTT	CCA P TTC	ATT I CAT	1008 GTC  V 1062 GTG	TAT  Y GCC	GGA G ACA	1017 GTG  V 1071 CAC	AAG  K GCT	ACA T	1026 AAG  K 1080 GAG
TAT Y GAG	CTG  L	981 CTG  L 1035 CGA	GTT  V	P	990 CCT  P	GTG  V	CTC  L	999 AAC  N	CCA  P	ATT I CAT	1008 GTC  V	TAT	GGA 	1017 GTG  V	AAG  K	ACA T	1026 AAG  K
TAT Y GAG	CTG L ATT I	981 CTG  L 1035 CGA  R	GTT V CAG	CCT P CGC R	990 CCT  P 1044 ATC  I	GTG V CTT L	CTC L CGA	999 AAC  N 1053 CTT  L	CCA P TTC F	ATT I CAT H	1008 GTC  V 1062 GTG  V	TAT Y GCC A	GGA G ACA	1017 GTG  V 1071 CAC  H	AAG K GCT	ACA T TCA	1026 AAG  K 1080 GAG  E
TAT Y GAG	CTG L ATT I	981 CTG  L 1035 CGA  R	GTT V CAG Q TCA	CCT P CGC R	990 CCT  P 1044 ATC  I 1098 ATC	GTG V CTT L	CTC L CGA R	999 AAC  N 1053 CTT  L	CCA P TTC F	ATT I CAT H CAT	1008 GTC  V 1062 GTG  V	TAT Y GCC A	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H	AAG K GCT	ACA T TCA	1026 AAG  K 1080 GAG  E
TAT Y GAG E	CTG L ATT I TAG	981 CTG  L 1035 CGA  R	GTT V CAG Q TCA	CCT P CGC R	990 CCT  P 1044 ATC  I 1098 ATC	GTG V CTT L	CTC L CGA R	999 AAC  N 1053 CTT  L	CCA P TTC F	ATT I CAT H CAT	1008 GTC  V 1062 GTG  V	TAT Y GCC A	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H	AAG K GCT	ACA T TCA	1026 AAG  K 1080 GAG  E
TAT Y GAG E	CTG L ATT I TAG	981 CTG  L 1035 CGA  R 1089 GTG	GTT V CAG Q TCA	CCT P CGC R	990 CCT  P 1044 ATC  I 1098 ATC	GTG V CTT L	CTC L CGA R	999 AAC  N 1053 CTT  L 1107 CTT	CCA P TTC F	CAT H CAT	1008 GTC  V 1062 GTG  V	TAT Y GCC A GAG	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H	AAG K GCT A GAT	ACA T TCA S	1026 AAG  K 1080 GAG  E 1134 GAT
TAT Y GAG CCC	CTG L ATT I TAG	981 CTG  L 1035 CGA  R 1089 GTG	GTT V CAG Q TCA	CGC P	990 CCT  P 1044 ATC  I 1098 ATC	GTG V CTT L	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT	CCA P TTC F	CAT H CAT	1008 GTC  V 1062 GTG  V 1116 TCA	GCC A	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H 1125 TCT	AAG K GCT A GAT	ACA T TCA S	1026 AAG  K 1080 GAG  E 1134 GAT
TAT Y GAG CCC P	CTG L ATT I TAG	981 CTG  L 1035 CGA  R 1089 GTG	GTT V CAG Q TCA	CCT P CGC R GTG	990 CCT  P 1044 ATC  I 1098 ATC	GTG V CTT L AAA	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT	CCA P TTC F TTC	CAT H CAT	1008 GTC  V 1062 GTG  V 1116 TCA 	TAT Y GCC A GAG	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H 1125 TCT	AAG K GCT A GAT	ACA T TCA S TCA	1026 AAG  K 1080 GAG  E 1134 GAT 
TAT Y GAG E CCC P	CTG L ATT I TAG *	981 CTG  L 1035 CGA  R 1089 GTG 	CAG Q TCA	CCT P CGC R GTG	990 CCT  P 1044 ATC  I 1098 ATC 	GTG V CTT L AAA	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT	CCA P TTC F TTC ATT	ATT I CAT H CAT CAG	1008 GTC  V 1062 GTG  V 1116 TCA 	GCC A GAG	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H 1125 TCT 	AAG K GCT A GAT	ACA T TCA S TCA	1026 AAG  K 1080 GAG  E 1134 GAT 
TAT Y GAG E CCC P TTT AAA	CTG L ATT I TAG *	981 CTG  L 1035 CGA  R 1089 GTG  1143 GTT  1197	GTT V CAG Q TCA AAC TCA	CCT P CGC R GTG ATT GAT	990 CCT  P 1044 ATC  I 1098 ATC  1152 TTG  1206 CCT	GTG  V  CTT  L  AAA   GAA  TCA	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT 1161 AGT 1215 ATG	P TTC F TTC ATT	ATT I CAT H CAT CAG	1008 GTC  V 1062 GTG  V 1116 TCA  1170 AAA  1224 GTT	GCC A GAG	GGA G ACA T TCC	1017 GTG  V 1071 CAC  H 1125 TCT  1233 TCT	AAG K GCT A GAT CTT	ACA T TCA S TCA AAT TTT	1026 AAG K 1080 GAG E 1134 GAT 1188 AAA 1242 TTT
TAT Y GAG E CCC P TTT AAA	CTG L ATT I TAG AAT TAC	981 CTG  L 1035 CGA  R 1089 GTG  1143 GTT  1197 AAC	CAG Q TCA AAC	CCT P CGC R GTG	990 CCT  P 1044 ATC  I 1098 ATC  1152 TTG  1206 CCT	GTG V CTT L AAA GAA TCA	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT 1215 ATG	CCA P TTC F TTC ATT	ATT I CAT H CAT CTG	1008 GTC  V 1062 GTG  V 1116 TCA  1170 AAA  1224 GTT	GCC A GAG	GGA G ACA T TCC AAT GAA	1017 GTG  V 1071 CAC  H 1125 TCT  1233 TCT	AAG K GCT A GAT CTT	ACA T TCA S TCA AAT	1026 AAG  K 1080 GAG  E 1134 GAT  1188 AAA  1242 TTT
TAT Y GAG CCC P TTT AAA	CTG L ATT I TAG TAC TAT	981 CTG  L 1035 CGA  R 1089 GTG  1197 AAC  1251 TAT	CAG Q TCA AAC TCA TTT	CCT P CGC R GTG GAT GAT	990 CCT  P 1044 ATC  I 1098 ATC  1206 CCT 1260 CTT	GTG  V  CTT  L  AAA  GAA  TCA	CTC L CGA R CTT GAC AAT	999 AAC N 1053 CTT L 1107 CTT 1215 ATG 1269 CTT	CCA P TTC F TTC ATT AAA GCT	CAT  CAT  CAT  CAT  CAG  CAG	1008 GTC  V 1062 GTG  V 1116 TCA  1224 GTT  1278 TAT	GCC A GAG	GGA G ACA T T CC AAT GAA TAT	1017 GTG  V 1071 CAC  H 1125 TCT  1233 TCT  1287	AAG K GCT A GAT CTT CCA TAC	TCA S TCA AAT TTT CCT	1026 AAG K 1080 GAG E 1134 GAT 1242 TTT 1296 GAC
TAT Y GAG CCC P TTT AAA	CTG L ATT I TAG TAC TAT	981 CTG  L 1035 CGA  R 1089 GTG  1197 AAC  1251 TAT	CAG Q TCA AAC TCA TTT	CCT P CGC R GTG GAT CTT	990 CCT  P 1044 ATC  I 1098 ATC  1206 CCT 1260 CTT	GTG  V  CTT  L  AAA  GAA  TCA  TGT	CTC L CGA R CTT	999 AAC N 1053 CTT L 1107 CTT 1215 ATG 1269 CTT	CCA P TTC F TTC ATT AAA GCT	CAT  CAT  CAT  CAT  CAG  CAG  CTG	1008 GTC  V 1062 GTG V 1116 TCA  1224 GTT  1278 TAT	GCC A GAG AAA GGGG AAT	GGA ACA T TCC AAT GAA TAT	1017 GTG  V 1071 CAC  H 1125 TCT  1233 TCT  1287	AAG  K  GCT  A  GAT   CTT   TAC	TCA S TCA AAT TTT CCT	1026 AAG K 1080 GAG E 1134 GAT 1242 TTT 1296 GAC
TAT Y GAG CCC P TTT AAA CAA	CTG L ATT I TAG TAC TAC TAT	981 CTG  L 1035 CGA  R 1089 GTG  1197 AAC  1251 TAT 	CAG Q TCA AAC TCA TTA	CCT P CGC R GTG GAT CTT	990 CCT  P 1044 ATC  I 1098 ATC  1206 CCT  1260 CTT	GTG  V  CTT  L  AAA   TCA  TGT	CTC L CGA R CTT GAC TTT	999 AAC N 1053 CTT L 1107 CTT 1215 ATG 1269 CTT 1323	CCA P TTC F TTC ATT AAA GCT	CAT  CAT  CAT  CAT  CAG  CAG  CAG  CAG	1008 GTC  V 1062 GTG  V 1116 TCA  1224 GTT  1278 TAT	GCC A GAG AAA GGG AAT	GGA GCC AAT GAA TAT	1017 GTG  V 1071 CAC  H 1125 TCT  1233 TCT  1287	AAG K GCT A GAT CTT CCA TAC	ACA T TCA S TCA AAT CCT	1026 AAG K 1080 GAG E 1134 GAT 1242 TTT 1296 GAC

# FIG. 1C

1	1359		1368			1377			1386				1395		1404		
AAC	TGC										GAT		AAT	GGT	ACA	TCT	AGA
	1	1413		]	1422			1431		:	1440		:	1449			1458
GAA	CAT	TTG	CCA	AAG	GCC	TAA	GCA	CGG	CAA	AGG	AAA	ATA	AAC	ACA	GAA	TAT	AAT
- ÷ -																	
	1	1467		•	1476			1485			1494			L503			1512
AAA	_										CCT						
		1521									1548						1566
СУТ											GAC						
	100	AIC	I CA	GAA.					CAA		GAC			AGA	GAA		AIA
		525			L584			1502			1602			1611			1620
N COCO		1575	OTC O												300		
All	111	CCI	CIG	GAC	ACT	AGC	ACI	IAA	GGG	GAA	GAT	166	AAG	IAA	AGC	CII	GAA
		L629									1656		:				1674
AAG	AGT	ACA									CAC					GTT	TTC
		1683									1710						
ACA	GCA	TAT	GGA	CCC	TGT	TTT	TCC	TAT	TTA	ATT	TTC	TTA	TCA	ACC	CTT	TAA	TTA
	1	1737		1	1746		- :	1755		:	1764		:	L773		:	L782
GGC	AAA	GAT	ATT	ATT	AGT	ACC	CTC	ATT	GTA	GCC	ATG	GGA	AAA	TTG	ATG	TTC	AGT
	1	1791		3	1800			1809			1818		1	1827			1836
GGG	GAT	CAG									ATA						
	1	1845		-	854		-	1863			1872		-	1881			L890
GAC											ACT				»CC		
GAC	110	AIG									ACI				ACC	AAC	AGG
		1899									1926						L944
am.																	
GTA	GTG	GGT	TAG	AGA	TTT			TCT			TTC						AII
		1953			1962			1971			1980					-	1998
TCT	TCT	CAC	TCA								TTC	CTG	GCA	ACA	GAA	CTC	ATG
		2007			2016						2034		2				2052
GCT	TTA	ATC	CCA	CTA	GCT	ATT	GCT	TAT	TGT	CCT	GGT	CCA	ATT	GCC	AAT	TAC	CTG
	2	2061		2	2070		2	2079		2	2088		2	2097		2	2106
TGT	CTT	GGA	AGA	AGT	GAT	TTC	TAG	GTT	CAC	CAT	TAT	GGA	AGA	TTC	TTA	TTC	AGA
	2	2115		7	2124		2	2133		2	2142		7	2151		- 2	2160
AAG	TCT	GCA	TAG	GGC	TTA	TAG	CAA	GTT			TTT				CAT	AGG	TGA
	2	169		-	2178		-	2187		-	2196			205			2214
<del>ተ</del> ሞር											TTA				СТА		
											2250						2268
000																	
											TGT						
											2304			2313			2322
											CTT					AAC	AGG
	2	2331		2	2340		2	2349		- 3	2358		2	2367		2	2376
GAC	TTT	GAG	ACC	AGG	AAA	GCA	ATC	TGA	CTT	AGG	CAT	GGG	AAT	CAG	GCA	TTT	TTG

# FIG. 1D

				2394	l .		240:	3		2412	2		2421						
CTT	CTG	AGG	GGC	TAT	TAC	CAA	GGG	TTA	ATA	GGT	TTC	ATC	TTC	AAC	AGG	ATA	TGA		
					2448												2484		
CAA	CAG	TGT	TAA	CCA									AAC			TCA	TAT		
	<sub>-</sub>	493		,	2502												2538		
a TC	TGG			_												-			
	2	547		2	2556		:	2565			2574			2583		:	2592		
TAT	AAC	ATG	CTT	TCA	TCC	CCT	TTT	GTA	ATG	GAT	ATC	ATA	TTT	GGA	AAT	GCC	TAT		
		601			2610												2646		
TTA	ATA	CTT	GTA	TTT	GCT	GCT	GGA	CTG	TAA	GCC	CAT	GAG	GGC	ACT	GTT	TAT	TAT		
										,			,	2691		,	2700		
m C a	ATG	2655			2664											-			
1GA	AIG	ICA	101			AIC													
	2	2709		:	2718			2727		:	2736		:	2745			2754		
AGC	AAA													GTT	ATT	TTT	CAT		
	_	2763			2772								:				2808		
CAA	ACC	TGA	TTC	CTT	CTG	TCC	TGA	ACA	CAT	AGC	CAG	GCA	ATT	TTC	CAG	CCT	TCT		
mmo	AGT	817			2826								-	2853			2862 TGA		
TTG	AGI	166	GIA	TIA	TIA	AAI	101		CÀI	IAC		CAA	161	GAG					
		871			2880	• • •		2889		:	2898		. :	2907			2916		
CAT	GTG																CAT		
		925			2934											:			
GTT	GAC	ATT	AAA	TGT	GAC	TTG	GGA	AGC	TAT	GTG	TTA	CAC	AGA	GTA	AAT	CAC	CAG		
	CCT	2979			2988												3024		
AAG	CCT	GGA	TTT	CIG	AAA	AAA	CTG	160	AGA	GCC	AAA		CIG	ICA	111	GCA	ACI		
		3033			3042			3051			3060			3069			3078		
CCC	ACT		ATT	-															
		3087			3096												3132		
GTC	AAG	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA		

AAA A 3'

# p tal 18 p tm p m m m to tal to b tal tal

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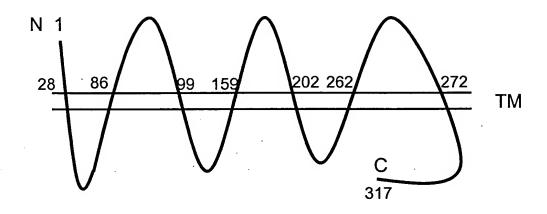
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,	o	ш)	w		Ä	17	7	č	¥ 6	997	7				
	ISTSSMPKMLAIFWF	LSTSTMPKILALFWF	LSTSTMPKILALFWF	165 166 180	IKQLPFCRSNILSHS	IKRLAFCHSNVLSHS	IKRLAFCHSNVLSHS	255 256 270	VER TONOUND HOLD TONO	VPLIGLSVVHKFGNS	<b>vpliglsvy</b> hrfgns	345 346 360			-
75 76 90	PMYIFLCMLSGIDIL	PMYLFLCMLAAIDLA	PMYLFLCMLAAIDLA	151 165	AVVRGAALMAPLPVF	ALVRGSLFFFFLPLL	AVVRGSLFFFFLPLL	240 241 255	FGICVORVCAVFLFI	FGTCVSHIGVVLAFY	FGTCVSHIGVVLAFY				
60 61 75	LTIIYIVRTEHSLHE	CIVVFIVRTERSLHA	CIVVFIVRTERSLHA	136 150 151	ATVLTLPRVTKIGVA	AAVLINNTVTVQIGMV	AAVLNNTVTAQIGIV	226 240	KIVLGLI-KEAÇAKA	RAVLQLPSKSEKAKA	RTVLQLPSKSERAKA	316 330 331	ASEP 318	KDIEAGGNT 320	KDLQAVGGK 320
45 46 60	AFPLCSLYLIAVLGN	GFPLLSMYAVALFGN	GFPLLSMYVVAMCGN	121 135 136	MAPDRYVAICHPLRH	MAPDRYVAICHPLRH	MAFDRYVAICHPLRH	211 225 226	GLUSLLISFSILLIL	GVDVMFISLSYFLII	GVDVMFISLSYFLII	301 315 316	EIRORILRLFHVATH	QIRTRVLAMFKISCD	QIRTRVLAMFKISCD
30 31 45	ILIGLPGLEEAQFWL	-MSSCNFTHATF MLIGIPGLEEAHFWF GFPLLSMYAVALFGN CIVVFIVRTERSLHA PMYLFLCMLAAIDLA LSTSTMPKILALFWF	VLIGIPGLEKAHFWV	05 106 120 121	AIHSLSGMESTVLLA	DSREITFDACLAQMF FIHALSALESTILLA MAFDRYVAICHPLRH AAVLNNTVTVQIGMV ALVRGSLFFFPLPLL IKRLAFCHSNVLSHS	PIHALSAIESTILLA	195 196 210 211	KVNVVKGLIVLISAL	YCVHQDVMKLAYTDT LPNVVYGLTAILLVW GVDVMFISLSYFLII KAVLQLPSKSEKAKA FGICVSHIGVVLAFI VFLIGLSVVHKFGNS	LPNVVYGLTAILLVM	85 286 300 301	<b>VPPVLNPIVYGVKTK</b>	LPPVINPIIYGAKTK	LHPIVRVVMGDIYLL LPPVINPIIYGAKTK QIRTRVLAMFKISCD KDLQAVGGK
15 16 30	1 101P3A11 MMVDPNGNESSATYF ILIGLPGLEEAQFWL AFPLCSLYLIAVLGN LTIIYIVRTEHSLHE PMYIFLCMLSGIDIL ISTSSMPKMLAIFWF	-MSSCNFTHATF	3 HPRAJ70 -MSSCNFTHAIC VLIGIPGLEKAHFWV GFPLLSMYVVAMCGN CIVVPIVRIERSIHA PMYLFLCMLAAIDLA LSTSTMPKILALFWF	91 105	1 101P3A11 NSTTIQEDACLLQIF AIHSLSGMESTVLLA MAFDRYVAICHPLRH ATVLTLPRVTKIGVA AVVRGAALMAPLPVF IKQLPFCRSNILSHS	DSREITFDACLAQMF	DSREISIEACLTOMF FIHALSAIESTILLA MAFDRYVAICHPLRH AAVLNNTVTAQIGIV AVVRGSÜFFFPLPLL IKRLAFCHSNVLSHS	181 195 196 210 211 225 226 240 241 255 256 270	YCLHQDVMKLACDD1	YCVHQDVMKLAYTDT	3 HPRAJ70  YCVHQDVMKLAYADT LPNVVYGLTAILLVM GVDVMFISLSYFLII RTVLQLPSKSERAKA FGTCVSHIGVVLAFY VPLIGLSVVHRFGNS	271 285	1 101P3A11 RDSPLPVILANIYLL VPPVLNPIVYGVKTK EIRQRILRLFHVATH ASEP	LDPIVHVLMGDVYLL	LHPIVRVVMGDIYLL
115	1 101P3A11	2 RAIC	3 HPRAJ70		1 101P3A11	2 RAIC	3 HPRAJ70	1	1 101P3A11	2 RAIC	3 HPRAJ70		1 101P3A11	2 RAIC	3 HPRAJ70

#### FIG. 3

GATCAAACTTCTTTTCCATTCAGAGTCCTCTGATTCAGATTTTAATGTTAACATTTTGGAAGACAGTATTCAGAAAAAA AATTTCCTTAATAAAAATACAACTCAGATCCTTCAAATATGAAACTGGTTGGGGAATCTCCATTTTTTCAATATTATTT TCTTCTTTGTTTTCTTGCTACGTATAATTAATATCCTGACTAGGTTGTGGTTGGAGGGTTATTACTTTTCATTTTA CCATGCAGTCCAAATCTAAACTGCTTCTACTGATGGTTTACAGCATTCTGAGAATAAAAGAATGGTACATCTAGAGAACATT TGCCAAAGGCCTAAGCACAGCAAATCAAACCACAGAAATAAAACAAGAATAAAAAATAAAAATAAAATGAGATAAATCTAGCTTAAAACTATAACT TCCTCTTTAGAACTCCCAACCACATTTGGATC

FIG. 4

#### Extracellular



Intracellular

FIG. 5A

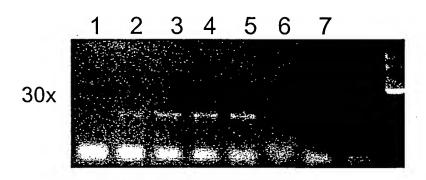
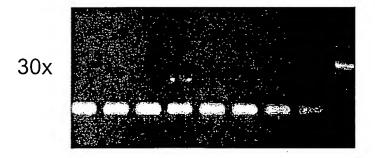


FIG. 5B





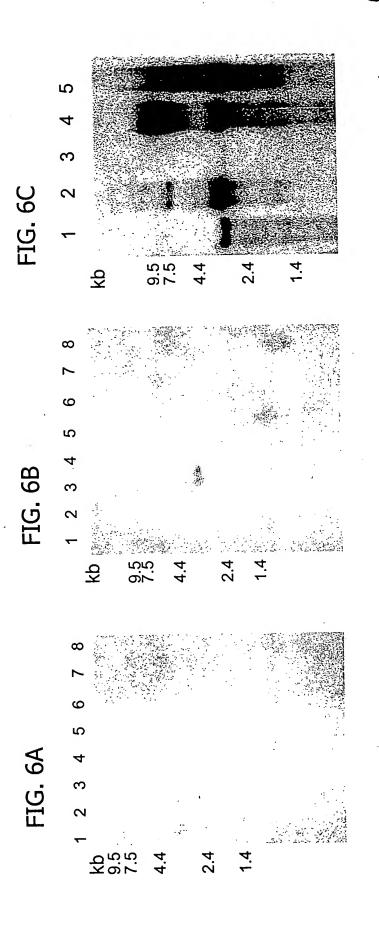


FIG. 7

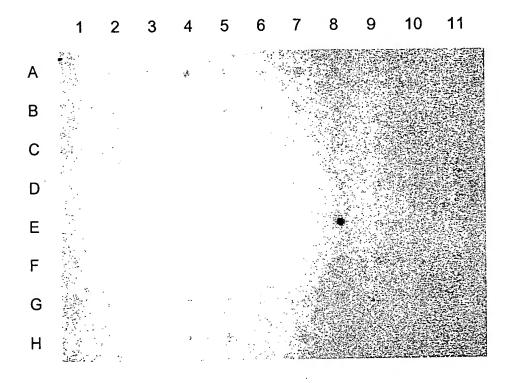
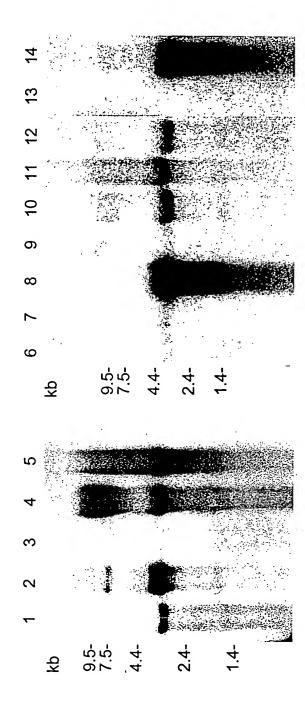


FIG. 8A FIG. 8B



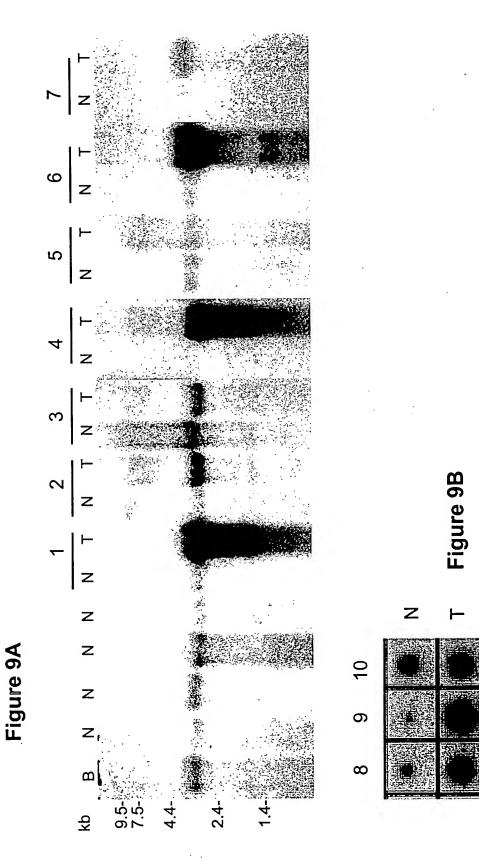
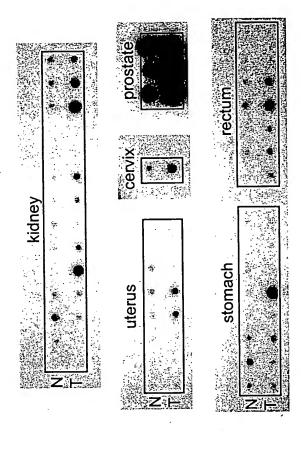
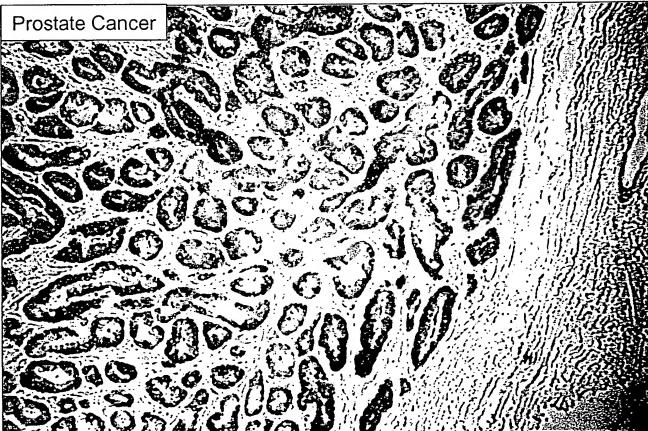


Figure 10



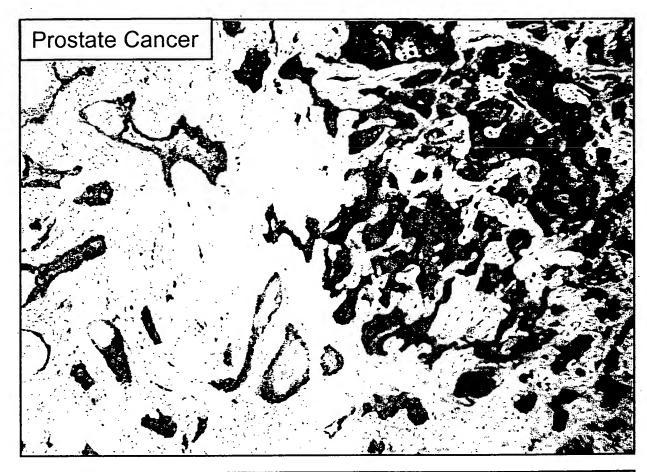
### Figure 11A-11B





p. 1.1 1 p. 12 p. 21 p. 12 t. 1.16. p. 1.16 t. 1.16

## Figure 12A-12B



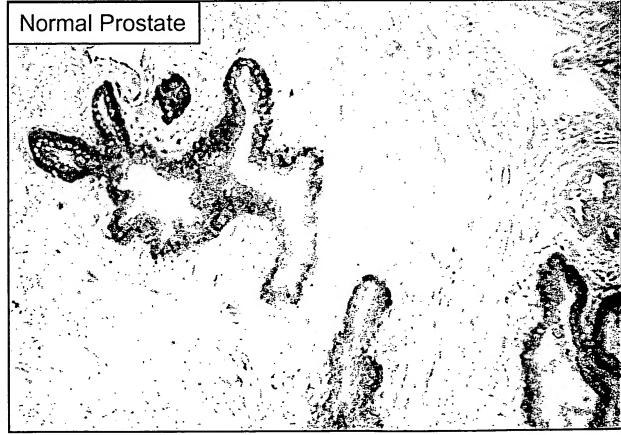


FIG. 13B

FIG. 13A

stream of the stream

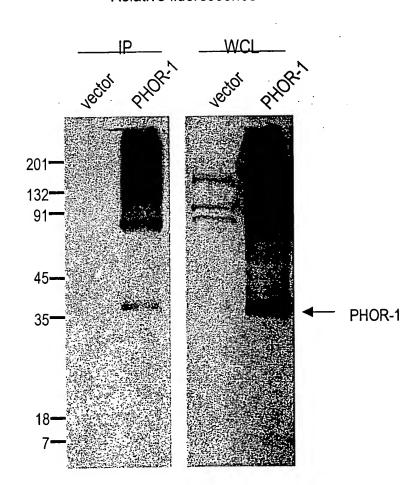


Fig. 14A

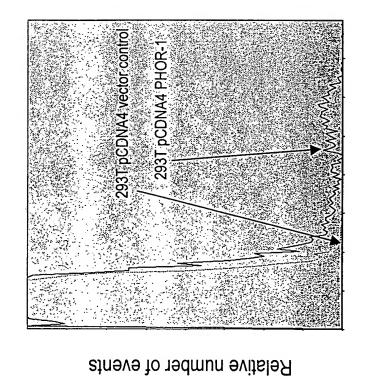
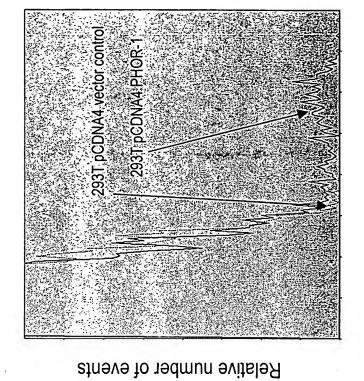


Fig. 14E



Relative fluorescence

Relative fluorescence

Fig. 15

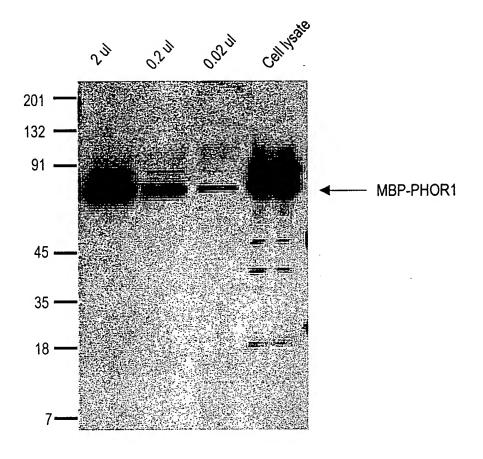
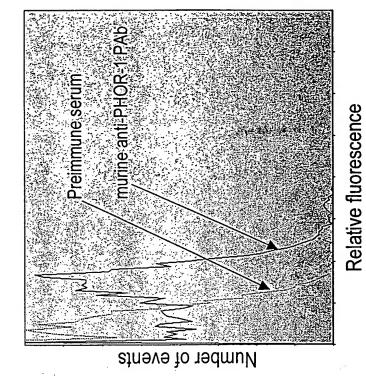


Fig. 16B



Number of events

Relative fluorescence

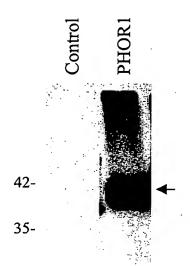
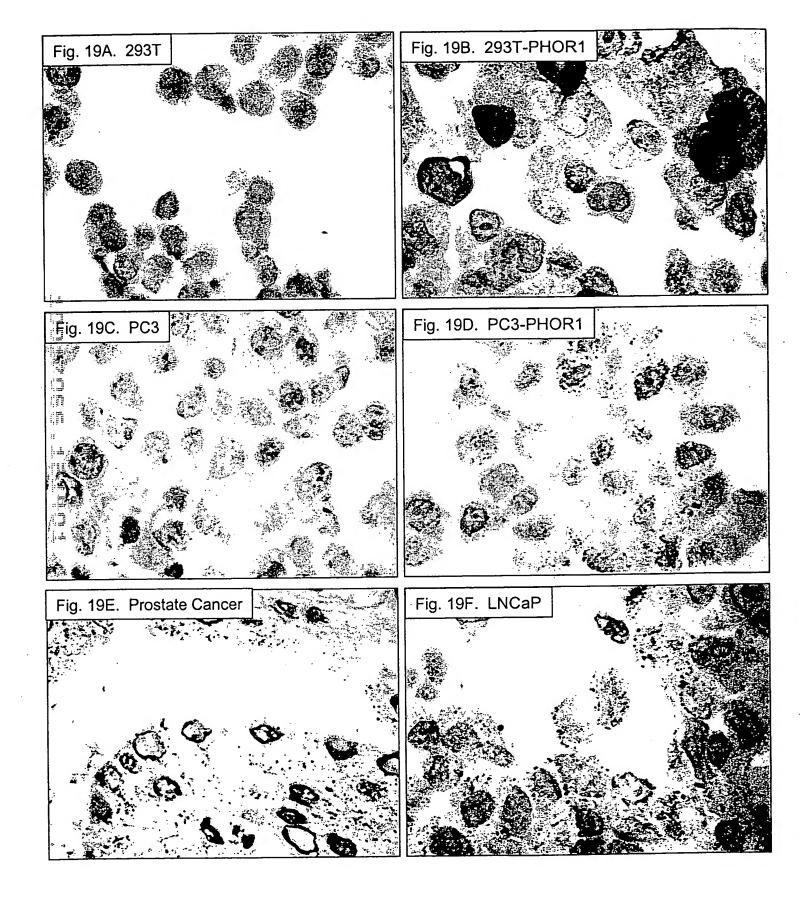
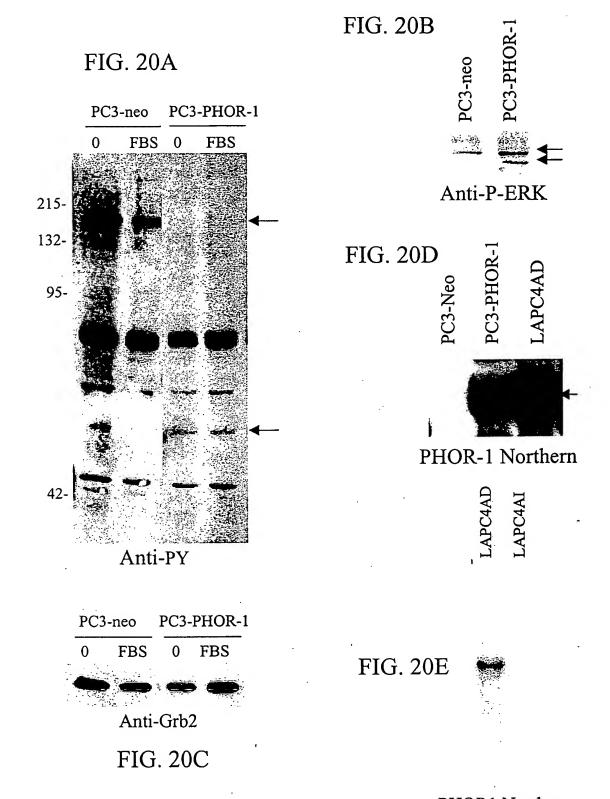


FIG. 17



Figure 19A-F





PHOR1 Northern

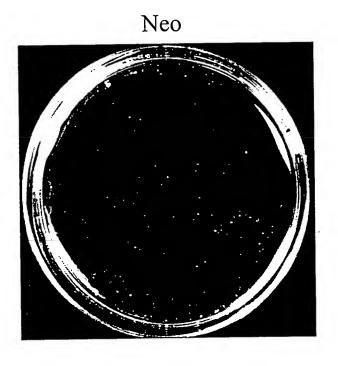


Fig. 21A

# PHOR1

Fig. 21B



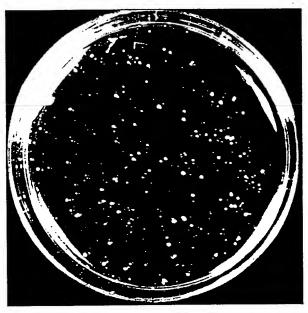


Fig. 21C

# FIG. 22

			9			18			27			36			45			54
5'	GCT	GTG	GCC	ATG	TTT	ATT	GGA	GTG	TTG	GAT	CTA	TTC	TTT	ATC	ATC	CTA	TCT	TAT
	А	V	A	M	r	1	G	٧.	ь	ט	L	F.	F	Ι	I	L	S	Y
			63			72			81			90			99			108
	ATC	TTT	ATC	CTT	CAG	GCA	GTT	CTA	CAA	CTC	TCC	TCT	CAG	GAG	GCC	CGC	TAC	AAA
	т	F	I	T.				T.		7								
	•	•	•	_	Q	Α.	٧	п								ĸ	Y	K
			117						135			144			153			162
	GCA	TTT	GGG	ACA	TGT	GTC	TCT		ATA		GCC	ATC	TTA	GCC	TTC	TAC	ACA	CCT
	A	F	G	T	C	v	s				Δ	т	т.	Δ			т	P
						•	_	••	-	Ū	••	•	_		r	•	•	F
	man.	OTT C	171		max										207			216
	ICA		ATC	TCT	TCA	GIC	ATG	CAC	CGT	GTG	GCC	CGC	TGT	GCT	GTG	CCA	CAC	GTC
	s	v	I	s														
	CAC	Δጥጥ	225 CTC	CTC	GCC	234		ጥለጥ	243 CTG		TTC.			איינים	261		000	270
														ATG	GIC	AAT		ATC
			L															
			279			200			207			206						
	ATC	TAT	GGC	GTT	AAG								Стт			ልጥጥ		
	I	Y	G	V	K	T	K	Q	I	R	D	S	L	G	s	I	P	E
			333			342			351			360			260			270
	AAA	GGA	TGT	GTG	AAT	AGA	GAG	TGA	GGA	ATA	AGT	GGA	AAA	AGA	GTG	GGG	CCC	AGT
													<b>-</b> . <b>-</b> -					
	K	G	С	V	N	R	E	*.										
			387		•	396			405			414			423			432
	GAA	TGC	TGT	AGT	GGG	CCA	GGG	CTG	TGC	TGA	GAG	TAG	ATG	GGT	CCT	AGA	CTC	CAC
	GTT	TAG	441 TTC		тст							468 AAT			477	באמ	ርጥር	486 AGA
			495															
			AAA			3'												
			<del>-</del>															